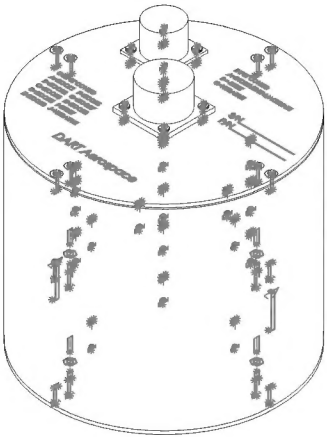



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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			D108-AB-1	1	PLATE, TOP	ALUMINUM	1/4 X 6-7/8 X 6-7/8	
			D108-AB-3	1	PLATE, 3 RELAY	PHENOLIC	1/8 X 6-1/8 X 6-1/8	
			D108-AB-5	1	PLATE, 4 RELAY	PHENOLIC	1/8 X 6-1/8 X 6-1/8	
			D108-AB-7	1	PLATE, CIRCUIT BOARD	PHENOLIC	1/8 X 6-1/8 X 6-1/8	
			D108-AB-9	1	PLATE, BASE	ALUMINUM	1/4 X 6-7/8 X 6-7/8	
			D108-AB-11	1	CASING	ALUMINUM OR PVC?	PIPE 6 INCH SCHEDULE 40 X 5-7/8 LONG	
		B/O	D108-AB-13	1	CIRCUIT BOARD		DYNANAV# DNSS0011	
		B/O	D108-AB-15	9	RELAY		CRYDOM D1D40 ALLIED# 70130468	
		B/O	D108-AB-17	1	CONNECTOR		14 PIN RECEPTICAL MS3450L20-27P NEWARK# 56K9946	
		B/O	D108-AB-19	1	CONNECTOR		3 PIN RECEPTICAL MS3450L16-10P NEWARK# 25K8422	
		B/O	D108-AB-21	1	CAPACITOR		100uF 50V ALLIED# 70257707	
		B/O	D108-AB-23	2	RECTIFIER		BRIDGE RECTIFIER ALLIED# 70217354	
		B/O	D108-AB-25	18	DIODE		TVS ALLIED# 70055910	
		B/O	D108-AB-27	12	STANDOFF	SS	#6-32 X 1-1/4 MCMaster-CARR#91075A447	
		B/O	D108-AB-29	4	STANDOFF	SS	#6-32 X 1-1/4 MCMaster-CARR# 91115A134	
		B/O	D108-AB-31	4	SPACER	NYLON	#4 X 1/4 X 1/4 MCMaster-CARR# 94639A103	
		B/O	D108-AB-33	27	CONNECTOR		RING TERMINAL #6 22-16AWG ALLIED# 70084111	
		B/O	D108-AB-35	27	CONNECTOR		RING TERMINAL #8 22-16AWG ALLIED# 70084115	
		B/O	D108-AB-37	9	CONNECTOR		RING TERMINAL #6 16-14AWG ALLIED# 70084121	
		B/O	D108-AB-39	9	CONNECTOR		RING TERMINAL #8 16-14AWG ALLIED# 70084124	
		B/O	D108-AB-41	1	BUTT SLPICE		16-14 AWG ALLIED# 70084935	
		B/O	D108-AB-43	4	WASHER	SS	#4 X 5/16 OD MCMaster-CARR# 92141A005	
		B/O	D108-AB-45	4	NUT	SS	NYLOCK #4-40 MCMaster-CARR# 91831A005	
		B/O	D108-AB-47	4	SCREW	SS	PAN #4-40 X 11/16 MCMaster-CARR# 91772A117	
		B/O	D108-AB-49	24	WASHER	SS	#6 X OD 3/8 MCMaster-CARR# 92141A007	
		B/O	D108-AB-51	12	NUT	SS	NYLOCK #6-32 MCMaster-CARR# 91831A007	
		B/O	D108-AB-53	6	SCREW	SS	PAN #6-32 X 3/4 MCMaster-CARR# 91772A151	
		B/O	D108-AB-55	6	SCREW	SS	PAN #6-32 X 5/8 MCMaster-CARR# 91772A150	
		B/O	D108-AB-57	2	WASHER	SS	#10 MCMaster-CARR# 92141A011	
		B/O	D108-AB-59	2	NUT	SS	NYLOCK #10-24 MCMaster-CARR# 91831A011	
		B/O	D108-AB-61	2	SCREW	SS	#10-24 X 1 MCMaster-CARR# 92210A247	
		B/O	D108-AB-63	8	SCREW	SS	#4-40 X 3/8 MCMaster-CARR# 91772A108	
		B/O	D108-AB-65	16	SCREW	SS	FLATHEAD #6-32 X 1/2 MCMaster-CARR# 91771A148	
		B/O	D108-AB-67	1	WIRE		22 AWG RED	
		B/O	D108-AB-69	1	WIRE		22 AWG BLACK	
		B/O	D108-AB-71	1	WIRE		22 AWG WHITE	
		B/O	D108-AB-73	1	WIRE		22 AWG ORANGE	
		B/O	D108-AB-75	1	WIRE		22 AWG GREEN	
		B/O	D108-AB-77	1	WIRE		22 AWG BLUE	
		B/O	D108-AB-79	1	WIRE		22 AWG VIOLET	
		B/O	D108-AB-81	1	WIRE		22 AWG YELLOW	
		B/O	D108-AB-83	1	WIRE		22 AWG GRAY	
		B/O	D108-AB-85	1	WIRE		16 AWG RED	
		B/O	D108-AB-87	1	WIRE		16 AWG BLACK	
		B/O	D108-AB-89	1	WIRE		16 AWG WHITE	
		B/O	D108-AB-91	1	WIRE		16 AWG ORANGE	
		B/O	D108-AB-93	1	WIRE		16 AWG GREEN	
		B/O	D108-AB-95	1	WIRE		16 AWG BLUE	
		B/O	D108-AB-97	1	WIRE		16 AWG VIOLET	
		B/O	D108-AB-99	1	WIRE		16 AWG YELLOW	
		B/O	D108-AB-101	1	WIRE		16 AWG GRAY	

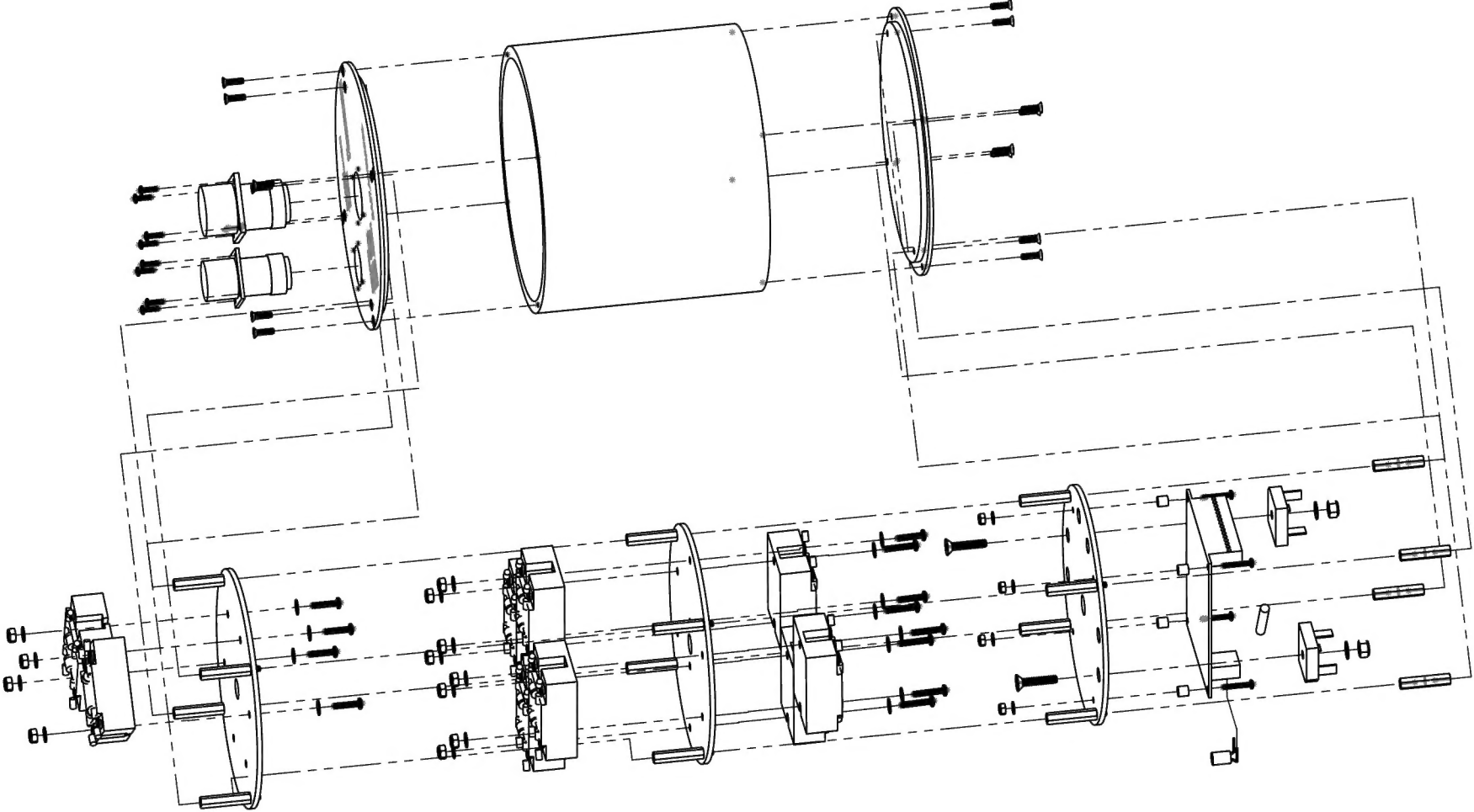



<div> RED BARN MACHINE</div>	
TITLE SWITCHING SYSTEM	
DWG NO. D108-ABD108-AB	REV
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: APPROVED TREAT FINISH SPEC USED ON MODEL
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE SHEET 1 OF 10

Not Approved for MFG

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REVISIONS				
REV	DESCRIPTION			
DATE	INITIAL	APPROVED		

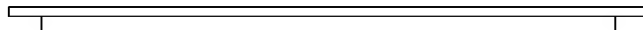
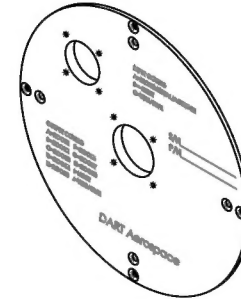
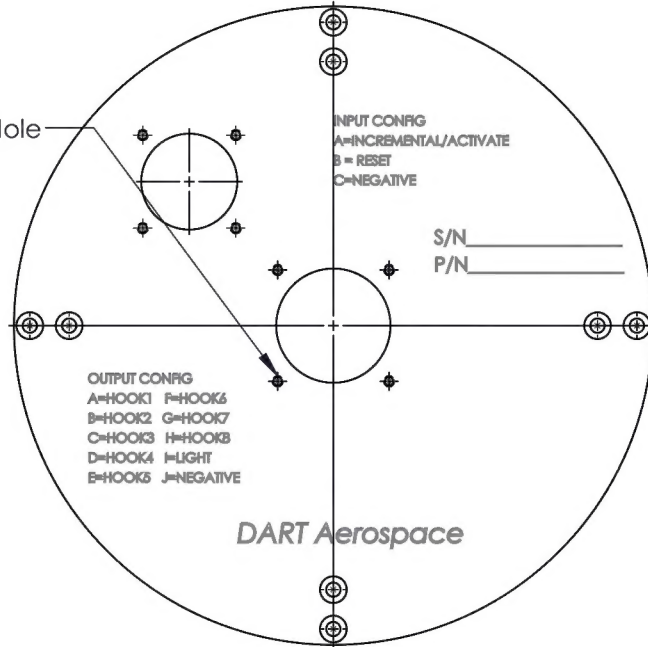



	
TITLE SWITCHING SYSTEM	
DWG NO. D108-ABD108-AB	REV
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	DRAWN BY: APPROVED TREAT FINISH SPEC USED ON MODEL
SCALE 1:4	DATE SHEET 2 OF 10

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL

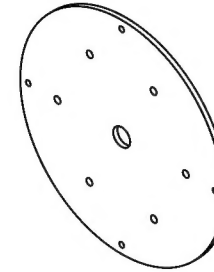
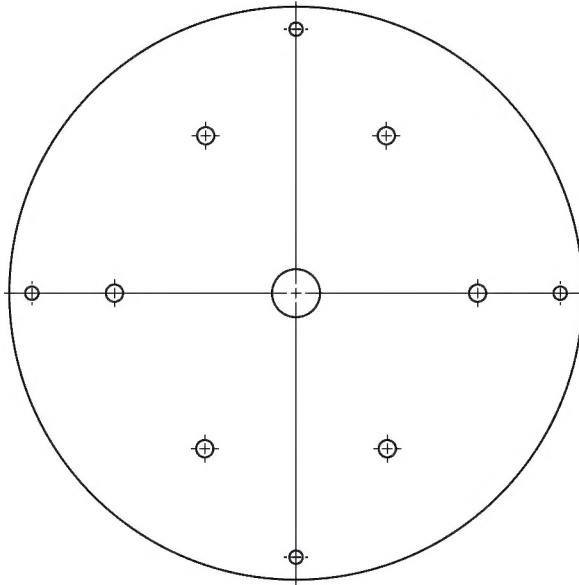
#4-40 Tapped Hole




	
<b>TITLE</b> SWITCHING SYSTEM	
<b>DWG NO.</b> D108-AB-1	<b>REV</b> 1
<b>MAT'L</b> ALUMINUM	<b>DRAWN BY:</b>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005      FRACTIONS ± 1/32 .XX ± .01      ANGLES ± 5° .X ± .1	<b>APPROVED</b> <i>Not Approved for MFG</i> <b>HEAT</b> <b>TREAT</b> <b>FINISH</b> <b>SPEC</b>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>USED ON MODEL</b>
<b>SCALE</b> 1:2	<b>DATE</b>
SHEET 3 OF 10	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			

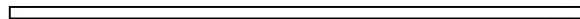
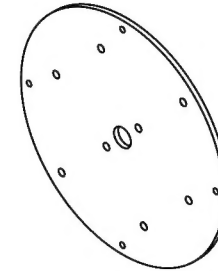
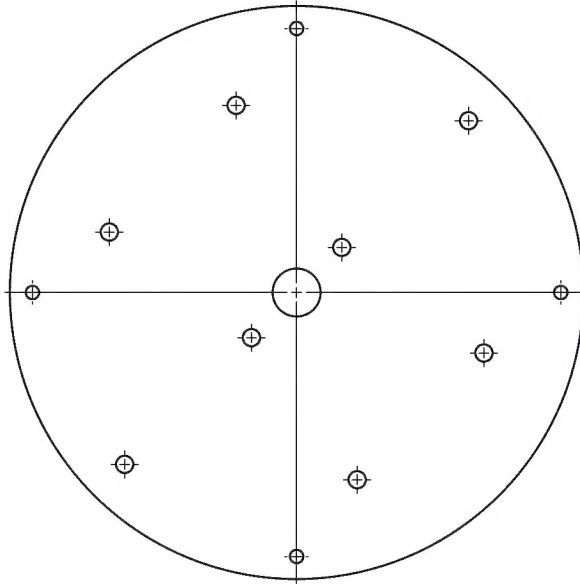



	
TITLE SWITCHING SYSTEM	
DWG NO. D108-AB-3	REV
MAT'L PHENOLIC	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED
.XXX ± .005 FRACTIONS ± 1/32	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:2	DATE
SHEET 4 OF 10	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			

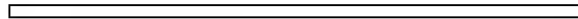
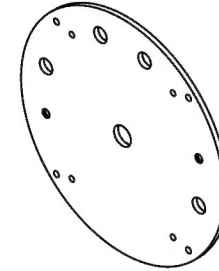
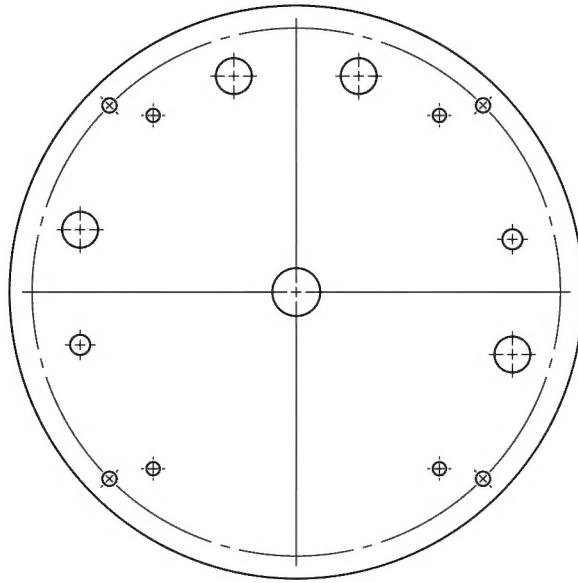



	
TITLE SWITCHING SYSTEM	
DWG NO. D108-AB-5	REV
MAT'L PHENOLIC	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED
.XXX ± .005 FRACTIONS ± 1/32	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:2	DATE
SHEET 5 OF 10	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			

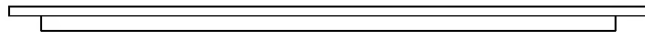
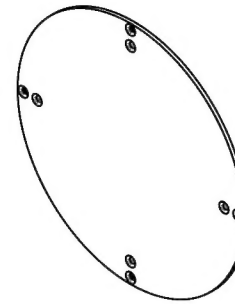
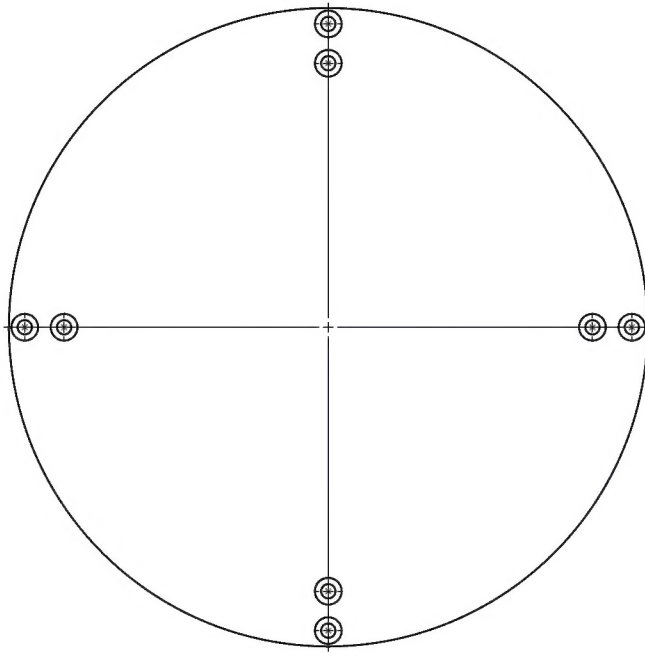


	
TITLE SWITCHING SYSTEM	
DWG NO. D108-AB-7	REV
MAT'L PHENOLIC	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED
.XXX ± .005 FRACTIONS ± 1/32	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:2	DATE
SHEET 6 OF 10	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			



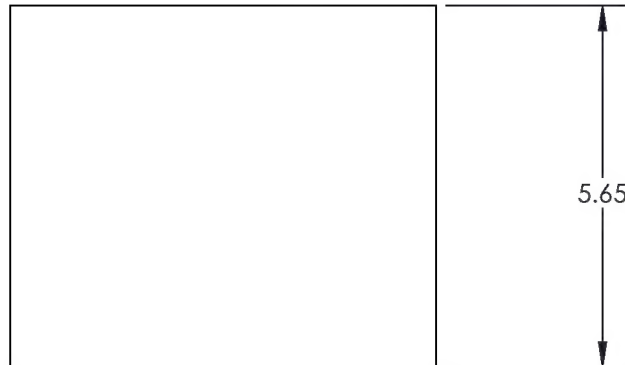
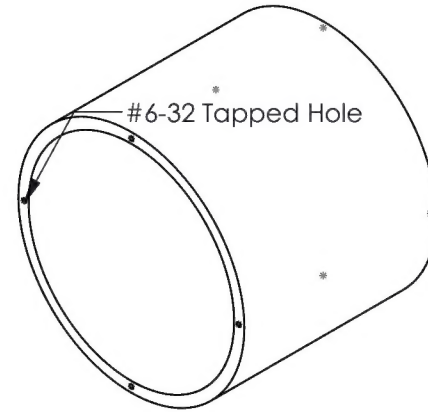
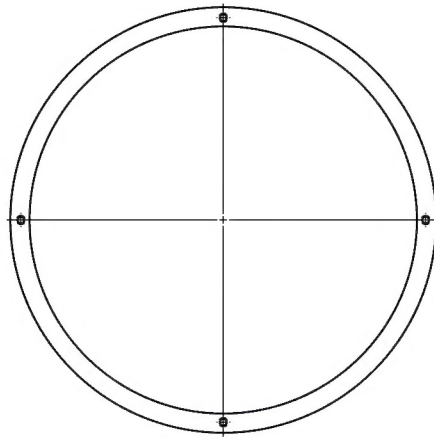
TITLE SWITCHING SYSTEM	
DWG NO. D108-AB-9	REV
MAT'L ALUMINUM	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED
.XXX ± .005 FRACTIONS ± 1/32	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:2	DATE
SHEET 7 OF 10	


*Not Approved for MFG*



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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			



	
TITLE SWITCHING SYSTEM	
DWG NO. D108-AB-11	REV
MAT'L ALUMINUM OR PVC?	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED
.XXX ± .005 FRACTIONS ± 1/32	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:3	DATE
SHEET 8 OF 10	

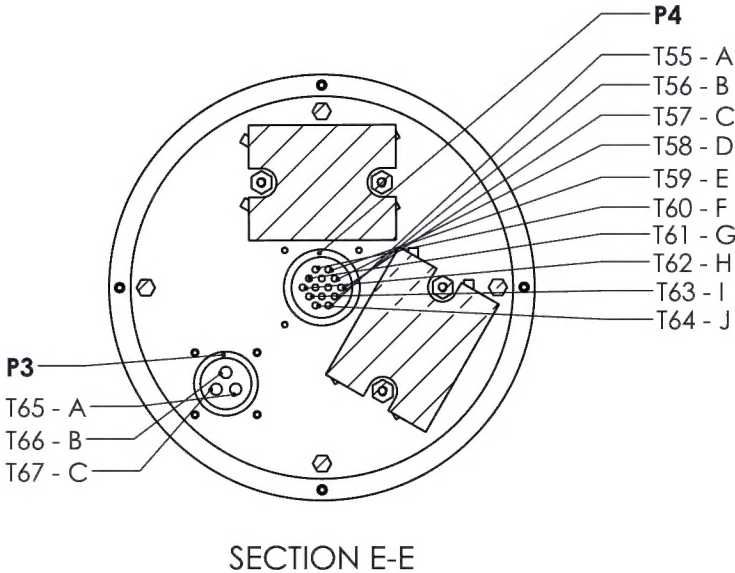
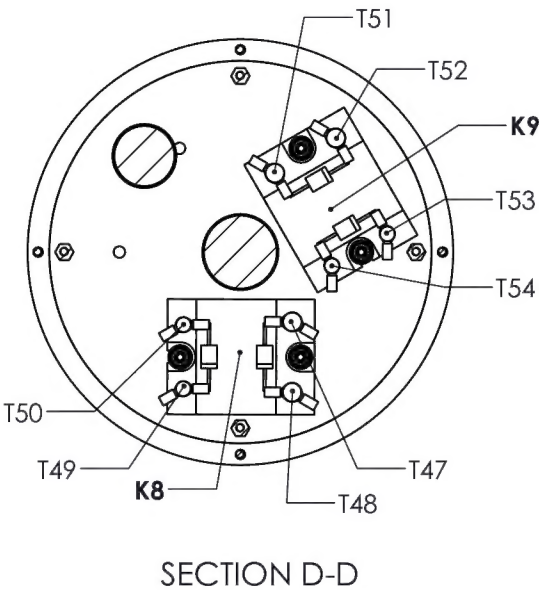
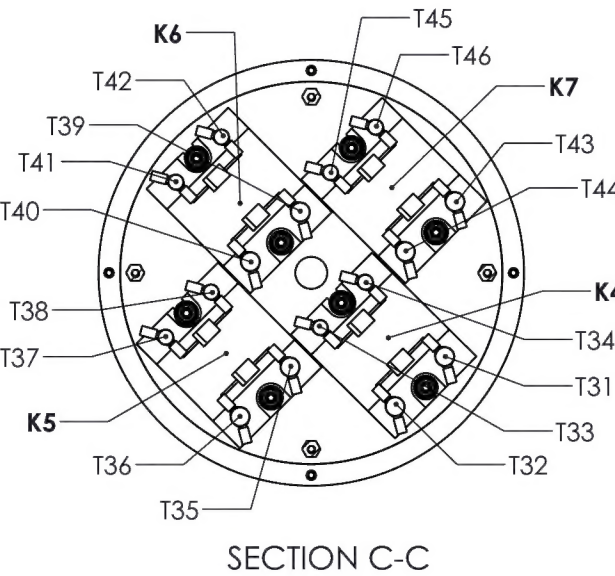
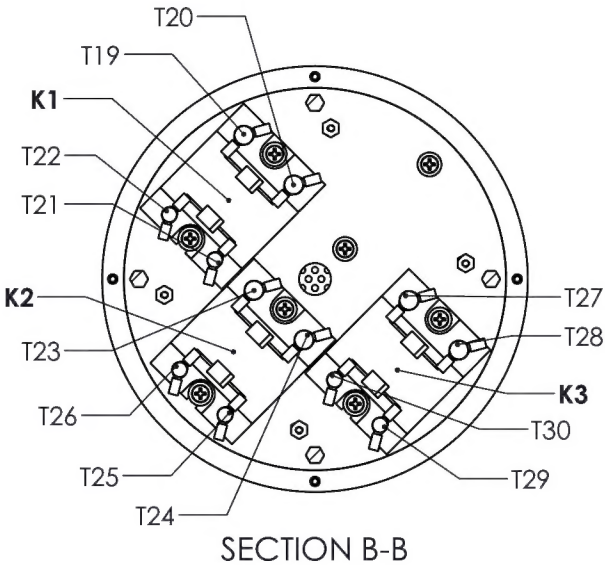
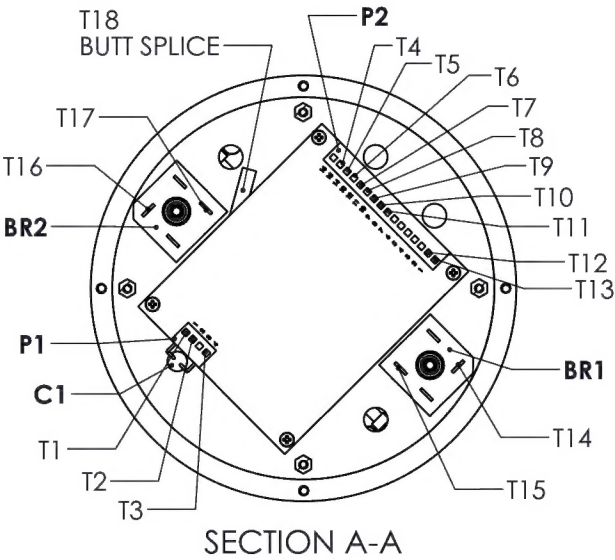
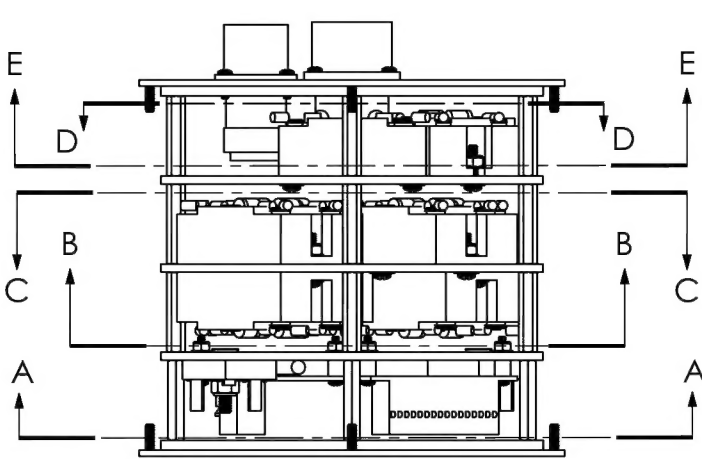
*Not Approved for MFG*



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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			

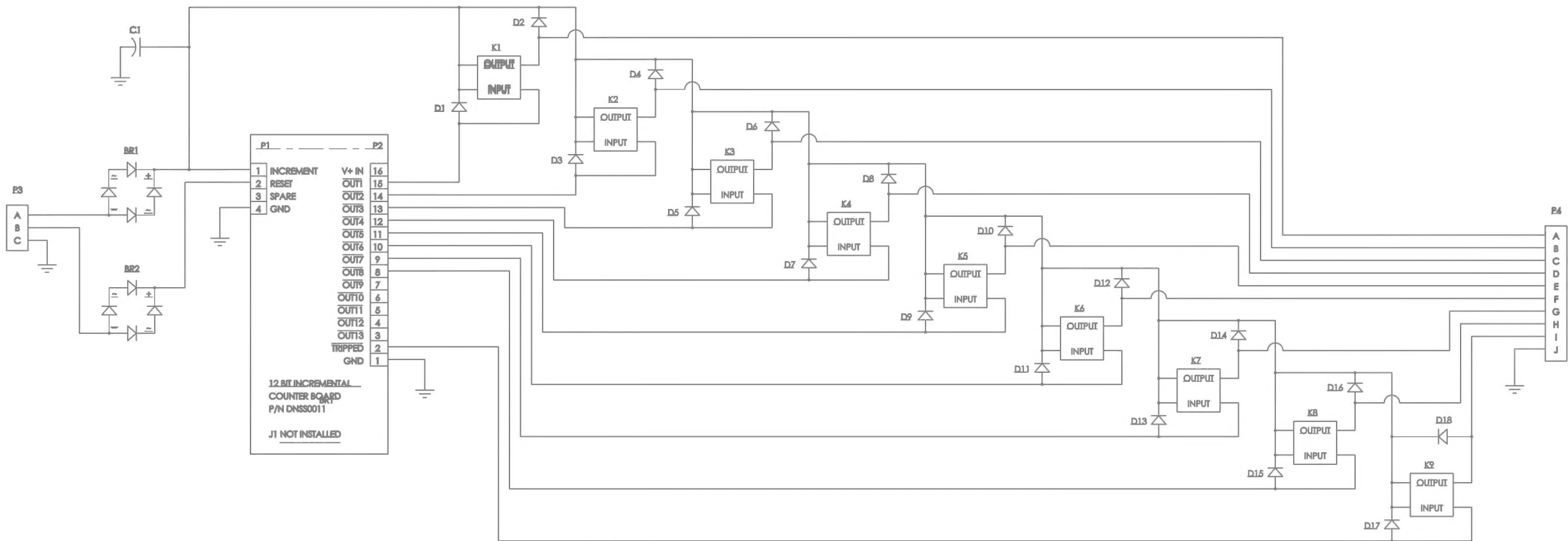
WIRE TERMINAL TABLE					
WIRE	FROM	TO	COLOR	AWG	LNG (IN)
W1	T14	T1	RED	22	8
W2	T14	T28	RED	16	9.5
W3	T28	T29	RED	16	4
W4	T29	T24	RED	16	4
W5	T24	T25	RED	16	3
W6	T25	T21	RED	16	4
W7	T21	T20	RED	16	4
W8	T20	T32	RED	16	8
W9	T32	T33	RED	16	4
W10	T33	T36	RED	16	4
W11	T36	T37	RED	16	4
W12	T37	T40	RED	16	4
W13	T40	T41	RED	16	4
W14	T41	T45	RED	16	4
W15	T45	T44	RED	16	4
W16	T44	T48	RED	16	6
W17	T48	T49	RED	16	4
W18	T49	T52	RED	16	4
W19	T52	T53	RED	16	4
W20	T19	T55	ORNGE	16	13
W21	T23	T56	GREEN	16	9
W22	T27	T57	BLUE	16	5.5
W23	T31	T58	VIOLET	16	5
W24	T35	T59	YELLOW	16	4
W25	T39	T60	GRAY	16	4
W26	T43	T61	WHITE	16	5
W27	T47	T62	BLACK	16	3.5
W28	T51	T63	RED	16	3.5
W29	T4	T22	ORNGE	22	6
W30	T5	T26	GREEN	22	8
W31	T6	T30	BLUE	22	7
W32	T7	T34	VIOLET	22	8
W33	T8	T38	YELLOW	22	8
W34	T9	T42	GRAY	22	10.5
W35	T10	T46	WHITE	22	10
W36	T11	T50	BLACK	22	10
W37	T12	T54	RED	22	10
W38	T17	T66	WHITE	16	11
W39	T15	T65	RED	16	11.5
W40	T18	T67	BLACK	16	12.5
W41	T18	T64	BLACK	16	11
W42	T18	T13	BLACK	22	6
W43	T18	T3	BLACK	22	4.5
W44	T2	T16	WHITE	22	7



DART AEROSPACE			
TITLE SWITCHING SYSTEM			
DWG NO. D108-ABD108-AB		REV	
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± .5° .X ± .1		DRAWN BY: APPROVED TREAT FINISH SPEC USED ON MODEL	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		SCALE 1:3	
DATE		SHEET 9 OF 10	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			



DART AEROSPACE		
TITLE SWITCHING SYSTEM		
DWG NO. D108-AB-SCHEMATIC		REV
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		DRAWN BY: APPROVED TREAT FINISH SPEC USED ON MODEL
SCALE 1:2	DATE	SHEET 10 OF 10